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UTILITY PATENT APPLICATION **TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

sond to a concetton of intent	tament among a diophoje a valid o'lle deville interest
Attorney Docket No.	50699/13
First Inventor	Luis M. Penafiel
Title	METHOD AND APPARATUS OF REMOVING RADIOACTIVE ANTIMONY FROM WASTE STREAMS
Express Mail Label No.	EV 335774976 US

APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.	ADDRESS TO: Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria VA 22313-1450					
1. Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fee processing) Applicant claims small entity status. See 37 CFR 1.27. 3. Specification [Total Pages 22] (preferred arrangement set forth below) - Descriptive title of the invention - Cross Reference to Related Applications - Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table, or a computer program listing appendix - Background of the Invention - Brief Summary of the Invention - Brief Summary of the Invention - Brief Description of the Drawings (if filed) - Detailed Description - Claim(s) - Abstract of the Disclosure 4. Drawing(s) (35 U.S.C. 113) [Total Sheets 5]	7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) 8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. Computer Readable Form (CRF) b. Specification Sequence Listing on: i. CD-ROM or CD-R (2 copies); or ii. Paper c. Statements verifying identity of above copies ACCOMPANYING APPLICATION PARTS 9. Assignment Papers (cover sheet & document(s))					
5. Oath or Declaration [Total Sheets] 6. Newly executed (original or copy) 7. Description a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 18 completed) 8. Description of Inventor(s) Signed statement attached deleting inventor(s) name in the prior application, see 37 CFR	10. 37 CFR 3.73(b) Statement Power of (when there is an assignee) 11. English Translation Document (if applicable) 12. Information Disclosure Copies of IDS Statement (IDS)/PTO-1449 Citations 13. Preliminary Amendment 14. Return Receipt Postcard (MPEP 503) (Should be specifically itemized) 15. Certified Copy of Priority Document(s) (if foreign priority is claimed)					
1.63(d)(2) and 1.33(b). 6. Application Data Sheet. See 37 CFR 1.76	16. Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent. Other:					
18. If a CONTINUING APPLICATION, check appropriate box, and sup, specification following the title, or in an Application Data Sheet under 3:						
	Art Unit: prior application, from which an oath or declaration is supplied under Box or divisional application and is hereby incorporated by reference.					
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Address						
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Name (Print/Type) Charles R. Macedo	Registration No. (Attorney/Agent) 32,781					
Signature (Lawy)	Date March 26, 2004					

This collection of information is required by 37 FR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PTO/SB/17 (10-03)
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Effective 10/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT

(\$)	876.	.00

Complete if Known		
Application Number	TBA	
Filing Date	March 26, 2004	
First Named Inventor	Luis M. Penafiel	
Examiner Name	TBA	
Art Unit	TBA	
Attorney Docket No.	50699/13	

METHOD OF PAYMENT (check all that apply) FEE CALCULATION (continued)			ECALCULATION (continued)			
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Deposit Account:	Large E	Entity	Small			
Donosit	Fee Code	Fee (\$)		Fee (\$)	Fee Description	Fee Paid
Account Number	1051	130	2051		Surcharge - late filing fee or oath	
Deposit Account Amster, Rothstein & Ebenstein	1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
Name	1053	130	1053	130	Non-English specification	
The Director is authorized to: (check all that apply) Charge fee(s) indicated below Credit any overpayments	1812	2,520	1812	2,520	For filing a request for ex parte reexamination	
Charge any additional fee(s) or any underpayment of fee(s)	1804	920*	1804	920*	Requesting publication of SIR prior to	
Charge fee(s) indicated below, except for the filling fee	1805	1 040*	1005	1 0 4 0 *	Examiner action Requesting publication of SIR after	
to the above-identified deposit account.	1005	1,040	1005	1,040	Examiner action	
FEE CALCULATION	1251	110	2251	55	Extension for reply within first month	
1. BASIC FILING FEE	1252	420	2252	210	Extension for reply within second month	
Large Entity Small Entity	1253	950	2253	475	Extension for reply within third month	
Fee Fee Fee Fee Description Fee Paid Code (\$) Code (\$)	1254	1,480	2254	740	Extension for reply within fourth month	
4004 770 2004 205 Hillion Floor	1255	2,010	2255	1,005	Extension for reply within fifth month	
1001 770 2001 385 Outlity filling fee 385	1401	330	2401	165	Notice of Appeal	
1003 530 2003 265 Plant filing fee	1402	330	2402	165	Filing a brief in support of an appeal	
1004 770 2004 385 Reissue filing fee	1403	290	2403	145	Request for oral hearing	
1005 160 2005 80 Provisional filing fee	1451	1,510	1451	1,510	Petition to institute a public use proceeding	
SUBTOTAL (1) (\$) 385.00	1452	110	2452	55	Petition to revive - unavoidable	
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	1453	1,330	2453	665	Petition to revive - unintentional	
Fee from	1501		2501		Utility issue fee (or reissue)	
Extra Claims below Fee Paid Total Claims 65 -20** = 45 x 9 = 405	1502	480	2502		Design issue fee	
Independent 5 2** 2 × 43 - 86	1503	640	2503		Plant issue fee	
Claims 3 - 3 = 2	1460	130	1460		Petitions to the Commissioner	
	1807	50	1807		Processing fee under 37 CFR 1.17(q)	
Large Entity Small Entity Fee Fee Fee Fee Fee Description	1806	180	1806		Submission of Information Disclosure Stmt	-
Code (\$) Code (\$)	8021	40	8021	1 40	Recording each patent assignment per property (times number of properties)	
1202 18 2202 9 Claims in excess of 20	1809	770	2809	385	Filing a submission after final rejection	
1201 86 2201 43 Independent claims in excess of 3	4040	770	,,,,		(37 CFR 1.129(a))	
1203 290 2203 145 Multiple dependent claim, if not paid 1204 86 2204 43 ** Reissue independent claims	1810	770	2810	<i>.</i> 385	For each additional invention to be examined (37 CFR 1.129(b))	
1204 86 2204 43 ** Reissue independent claims over original patent	1801	770	2801	385	Request for Continued Examination (RCE)	
1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent	1802	900	1802	900	Request for expedited examination of a design application	
SUBTOTAL (2) (\$) 491.00		fee (sp				<u> </u>
**or number previously paid, if greater; For Reissues, see above	*Redu	ced by	Basic I	Filing F	ee Paid SUBTOTAL (3) (\$) 0	
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Name (Print/Type)	lame (Print/Type) Charles A Macego Registration No. (Attorney/Agent) 32		32,781	Telephor	e 212-336-8000	
Signature	Chaunk Mhy	1	12-0	Date	March 26, 2004	

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March 26, 2004

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Alexandria, VA 22313-1450.

Name: Kataryn M. Manginelli,
Signature: Withway M. Manguelli

Re:

New U.S. Patent Application

Title: METHOD AND APPARATUS

OF REMOVING RADIOACTIVE ANTIMONY FROM WASTE

STREAMS

Inventor(s): Luis M. Penafiel and Pedro M. Buarque de Macedo

Our File: 50699/13

Dear Sir:

Pursuant to 37 C.F.R. §1.53, enclosed please find a new U.S. Patent Application in the names of Luis M. Penafiel and Pedro M. Buarque de Macedo entitled METHOD AND APPARATUS OF REMOVING RADIOAOCTIVE ANTIMONY FROM WASTE STREAMS, including the following:

- 1. A Utility Patent Application Transmittal cover sheet (Form PTO/SB/05) (1 page);
- 2. A Fee Transmittal (Form PTO/SB/17) (1 page) with authorization to charge all fees to Deposit Account No. 01-1785;
 - 3. Declaration (2 pages);
- 4. A complete patent application (23 pages), including a specification (12 pages), claims (5 pages), abstract (1 page) and drawings (5 sheets); and
 - 5. Return Receipt Postcard.

Please acknowledge receipt of the enclosed papers by stamping the enclosed postcard and returning the same.

Respectfully submitted,

AMSTER, ROTHSTEIN & EBENSTEIN LLP Attorney for Applicants 90 Park Avenue

New York, New York 10016 (212) \$36-8000

sy: __

Charles R. Macedo Reg. No. 32,781

BAC/kmm Enclosure